

A correspondent of the *Drederick's Gazette* says: "My experience of forty years as a hog-breeder has taught me that the tusk of a pet male hog are dangerous weapons and that they should be taken off. Boars at times are very vicious, afraid of nothing, and will tusk horses, cattle, or any other stock, not excepting his keeper, or any other man, woman or child. To take them off is an easy and safe operation, after you have caught and downed the animal. Use a bar of iron one-half inch thick, two and one-half inches wide and two feet long, (farmers generally have an old plow collar) and a hammer. Insert the iron bar in the hog's mouth back of and under the tusk, one end resting on the floor of the pen, the other end held by an assistant, the tusk resting on the ear; take the hammer and break it off; turn the animal over and treat the other one in the same way. With the loss of his tusks the animal seems to lose the courage to attack."

Another correspondent says that they can be taken off withippers such as blacksmiths use in cutting the points of nails in shoeing horses. Take a rope and fix a noose around the upper jaw of the hog, and tie it to a strong fence post so as to hold his head up; then take your nipper and place them on the tusk close to the jaw and you can cut them off smooth; they will fly like glass, and there is no danger of injuring the animal.

WATERING HORSES.

There are as many views expressed as there are writers as to when, how often, and how much water is to be allowed a horse daily. Some think once a day is enough, some twice, some three, and some that water should always be in reach of a horse when in the stable. People accustomed to use, feed and water horses find out how to treat them, and in this treatment how often they should be watered daily. Those who only drive horses, and know nothing about them, may neglect them through ignorance or inattention, but must understand that they should be watered three times a day at regular intervals, with cool water in summer, if it can be had, and cold water in winter. Pump or spring water meets these conditions. If driven they should not be watered until cooled off, and then they should be allowed as much as they can drink, and not driven again immediately after. In the stable these things settle themselves. The common practice is to water before feeding. Horses watered three times a day—morning, noon and night—will be in far better condition for work of any kind than if watered half a dozen times, as some people driving along their horses to be. They will sweat less and be more lively, and we believe will be in better health. Once a day, or twice a day, even, is not sufficient, though horses can get along with it as can cattle, but it is not advisable or humane. In fields where there are full water troughs cattle will be found to go to them about three times a day, and horses the same. *—Grange Bulletin.*

LUNGS AND HEALTH.

In proportion as a horse shows lack of constitution by not being able to stand exposure to cold, in that proportion is he liable to contract lung disease, says a writer in the *Live-Stock Journal*. As a rule, the smaller the chest and lungs, in proportion to the body, the more liable is the horse to become exhausted when driven sharply, as shown by the quick-heaving sides, the rapid action of the heart, and the general evidences of distress. It is in this way that lungs deficient in size and vigor take on disease readily after the horse has been harnessed at his work, on the same principle that a weak neck or pastern, or a weak loin, is liable to be easily strained. When attacked by inflammation then, more than at any other time, does he show the disadvantages of having restricted room for air to enter; because when, under the action of disease, a portion of one or both lungs is rendered incapable of performing its full function, the portion left unaffected may be quite inadequate to carry on the necessary aeration of the blood, thus materially curtailing one of the most important means of recovery. Let it be remembered that chest power is partly inherited, and in part something to be secured by cultivation. By using sire and dam that both have capacious lung space, the progeny will inherit, in quite a measure, this important characteristic. This will be an assurance from the start of chest capacity and constitution. The power secured through cultivation is not so manifest to the eye. Vigor is imparted to the contents of the chest through the contraction and expansion accompanying vigorous exercise; for lung expansion keeps pace with muscular action, and lung tissue is stimulated to grow and to take on increased vigor and power of endurance under exposure, equally with the growth and vigor imparted to the muscles by giving them full play, and putting them to their full tension frequently.

Where the muscles take on full action, as in trotting or running, there is an immediate demand made by the muscular tissues for more nutriment, more blood, and the heart, quickened in its action, pumps an increased quantity to the lungs to be re-oxygenated; the lungs, in their turn, opening their air cells wider, even the cells in the remote and usually partially inactive portions of the lung structures doing their part.

"If you have a very rusty plow," says a writer in the *Cincinnati Times*, "pour about eight ounces of sulphuric acid into a quart of water; do this slowly and very carefully, for it will burn hands, clothing or anything else; also use an earthen or crockery vessel rather than an iron or tin one. Apply this to the rusty surface two or three times, making each application as soon as the former one is dry. Then wash with clear water, and repeat the process. Give some of the worst spots a rub with a bit of Bristol brick; wash again with water and wipe dry. Put a little kerosene around the bolts and take the plow to pieces, securing each piece to go off the remaining rust spots if necessary. This sounds like a formidable process, but the whole operation ought not to take over an hour. Oil all exposed surface with kerosene when you set your plow away, and when you do your spring plowing a very few turns will finish off the balance of the rust."

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